

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A binding system for mounting a rider's foot to a recreational riding device, comprising:

a base plate having an upper surface adapted to support a rider's foot, ~~and an opposed, lower surface adapted to be oriented adjacent to and spaced apart from the a recreational riding device, and~~ an opening extending through the base plate between the upper and lower surfaces;

~~a support base adapted to mate to a recreational riding device; and~~

a connecting element pivotally disposed within the opening formed in the base plate and having an outer surface configured to interface with an inner surface of the opening in the base plate to form a ball-and-socket connection that allows pivotal movement of the base plate about the connecting element ~~mating the base plate to the support base, the connecting element being adapted to allow movement of the base plate about longitudinal and lateral axes thereof while preventing rotation and translation of the base plate with respect to the support base about a vertical axis central to the base plate and the support base; and~~

a clamp disposed within an opening formed through the connecting element and adapted to engage the connecting element and rigidly mate the connecting element to a recreational riding device.

2. (Cancelled) .

3. (Currently Amended) The binding system of claim 12, wherein, at an interface between the ~~clamp support base~~ and the base plate, the ~~clamp support base~~ includes at least one slot formed therein for receiving at least one pin member formed on the base plate, the at least one slot and pin member being effective to prevent rotation between the base plate and the ~~clamp support base~~.

4. (Currently Amended) The binding system of claim 2, wherein each of an inner surface of the ~~support base~~ connecting element and an outer surface of the ~~clamp support base~~ includes cooperating surface features formed thereon and effective to prevent rotational movement of the connecting element ~~support base~~ with respect to the ~~clamp support base~~.

5. (Original) The binding system of claim 1, further comprising at least one compression member adapted to mate to at least one of the lower surface of the base plate and a recreational riding device, the at least one compression member being effective to compress between the base plate and the recreational riding device in response to a force applied to at least one of the base plate and the recreational riding device.

6. (Original) The binding system of claim 5, wherein first, second, third, and fourth compression members are mated to the lower surface of the base plate.

7. (Original) The binding system of claim 6, wherein at least one of the compression members is removably mated to the base plate.

8. (Previously Presented) The binding system of claim 6, wherein each of the first, second, third, and fourth compression members are spaced substantially equidistantly from one another and from the vertical axis of the base plate.

9. (Original) The binding system of claim 5, wherein the at least one compression member is removably mated to the base plate.

10. (Cancelled).

11. (Cancelled).

12. (Previously Presented) The binding system of claim 1, further comprising at least one locking member adapted to prevent movement of the base plate in a particular direction.

13. (Currently Amended) A binding support system for mounting a rider's foot to a recreational riding device, comprising:

a base plate having a first surface adapted to be positioned adjacent to and spaced apart from a surface of a recreational riding device, ~~and~~ a second surface adapted to support the rider's foot, and an opening extending through the base plate between the first and second surfaces; and

at least one connecting element pivotaly disposed within the opening formed in the base plate ~~adapted to connect the base plate to a recreational riding device~~ such that the base plate is capable of pivotal movement about the connecting element, the connecting element having clamp disposed therethrough and adapted to rigidly mate the connecting element to a recreational riding device ~~about longitudinal and lateral axes thereof but is prevented from rotational and translational movement about a vertical axis that is central to and extends substantially perpendicular to the base plate.~~

14. (Currently Amended) The binding support system of claim 13, ~~further comprising a support base having~~ wherein the clamp includes a first end adapted to mount upon the recreational riding device, and a second end adapted to be oriented adjacent the rider's foot, ~~the vertical axis extending between the first and second ends of the support base, wherein the base plate includes a central opening adapted to surround the support base and the connecting element is adapted to connect the base plate to the support base.~~

15. (Original) The binding support system of claim 13, further comprising at least one compression member adapted to compress between the base plate and the recreational riding device in response to a force applied to at least one of the base plate and the recreational riding device.

16. (Previously Presented) The binding support system of claim 15, wherein the at least one compression member is adapted to mate to at least one of the base plate and the recreational riding device.

17. (Currently Amended) The binding support system of claim ~~13~~14, wherein the connecting element comprises a support ring ~~connected to the base plate~~ having a first portion configured to prevent rotational movement of the base plate with respect to the support ring, and a second portion mated to the clamp ~~support base.~~

18. (Currently Amended) The binding support system of claim 17, wherein a peripheral portion of the support ring is convex and interfaces with an inner, concave wall of the base plate that defines the opening formed in a central aperture of the base plate.

19. (Original) The binding support system of claim 17, wherein, at an interface between the support ring and the base plate, the support ring includes at least one slot formed therein for receiving at least one pin member formed on the base plate, the at least one slot and pin member being effective to prevent rotational movement between the base plate and the support ring.

20. (Currently Amended) The binding support system of claim 17, wherein each of an inner surface of the support ring and an outer surface of the clamp support base includes cooperating surface features formed thereon and effective to prevent rotational movement of the support ring with respect to the clamp support base.

21. (Original) The binding support system of claim 16, wherein first, second, third, and fourth compression members are mated to a lower surface of the base plate.

22. (Original) The binding support system of claim 16, wherein at least one of the compression members is removably mated to the base plate.

23. (Currently Amended) The binding support system of claim 13, wherein the base plate includes at least one binding adapted to engaging ~~the~~ a rider's foot.

24. (Currently Amended) A recreational riding device, comprising:
an elongate board member having upper and lower surfaces;
at least one binding support component comprising a base plate having an upper surface configured to support a rider's foot, ~~and~~ a lower surface configured to be oriented adjacent to and spaced a distance apart from the elongate board member, and an opening extending therethrough between the upper and lower surfaces;
~~a support base removably mated to the elongate board member; and~~
a connecting element pivotaly disposed within the opening in ~~connecting~~ the base plate ~~to the support base to allow pivotal movement of the base plate about the connecting element longitudinal and lateral axes of the base plate while preventing rotational and translational movement of the base plate with respect to the elongate board about a vertical axis central to the base plate and~~

~~the elongate board; and~~

a support base disposed through the connecting element and removably mated to the elongate board member.

25. (Original) The recreational riding device of claim 24, further comprising at least one compression member mated to at least one of the base plate and the recreational riding device and adapted to compress between the base plate and the recreational riding device in response to a force applied to at least one of the base plate and the recreational riding device.

26. (Original) The recreational riding device of claim 24, wherein the at least one binding support component includes a binding member adapted to support the rider's foot.

27. (Previously Presented) The recreational riding device of claim 24, further comprising at least one locking element effective to prevent movement of the base plate with respect to the elongate board member in a particular direction.

28. (Original) The recreational riding device of claim 27, wherein the locking element is disposed between the base plate and the elongate board member.

29-35. (Cancelled)

36. (Currently Amended) A suspension system for supporting a foot, comprising:

a first member having an upper surface adapted to support a foot and an opposed lower surface;

a second member ~~and~~ positioned a distance apart from the lower surface of the first member and coupled to the first member by a ball-and-socket connection such that pivotal movement is allowed between the first and second members ~~about longitudinal and lateral axes thereof while rotational and translational movement of the first and second members are prevented about a vertical axis central to the first and second members;~~

~~at least one~~ a plurality of compression elements positioned between the lower surface of the first member and the upper surface of the second member, the plurality of compression elements

being spaced a distance apart from the ball-and-socket connection and adapted to control movement between the first and second members.

37. (Cancelled).

38. (Previously Presented) The suspension system of claim 36, wherein the at least one compression element is removably disposed between the first and second members.

39. (Previously Presented) The suspension system of claim 36, wherein the at least one compression element is formed from an elastomeric polymer.

40. (Cancelled).

41. (Currently Amended) A suspension system for supporting a foot, comprising:
a first member having an upper surface with an elongate configuration shaped adapted to support a foot and an opposed lower surface;
a second member positioned a distance apart from the lower surface of the first member and having upper and lower surfaces;
a ball-and-socket interface disposed between the lower surface of the first member and the upper surface of the second member and adapted to allow pivotal movement of the first member ~~about longitudinal and lateral axes thereof while preventing rotational and translational movement of the first member~~ with respect to the second member ~~about a vertical axis central to the first and second members;~~ and
an anti-rotation mechanism formed within the ball-and-socket interface and adapted to prevent rotation while allowing pivotal movement of the first member relative to the second member.

42. (Currently Amended) A suspension system for supporting a foot, comprising:
a first substantially elongate planar member having at least one mating element for engaging ~~adapted to support~~ a foot and having a central aperture formed therein with an inner, concave wall;
a second substantially elongate planar member positioned a distance apart from the first member; and

Serial No.: 10/608,852
Filing Date: June 27, 2003
Group Art Unit: 3618
Examiner: C. Bottorff
Atty. Docket No.: 104934-2

a support ring connecting the first and second members, the support ring having a convex peripheral portion that interfaces with the inner, concave wall of the central aperture of the first member, the interface being effective to allow movement of the first member with respect to the support ring.